

In the Claims:

1. (Currently Amended) A computer readable storage medium including a set of instructions executable by a processor, the set of instructions operable for a method of compensating for a linear time scale change in a received signal, the received signal being modified by a sequence of symbols in the time domain, the method comprising the steps of:
  - (a) extracting an initial estimate of the sequence of symbols from said received signal; and
  - (b) forming an estimate of a correctly time scaled sequence of the sequence of symbols by interpolating the values of said initial estimate, the estimate compensating for the linear time scale change in the received signal, wherein the forming step is repeated to provide a range of estimates corresponding to different time scalings.
2. (Canceled)
3. (Currently Amended) The ~~method~~ computer readable storage medium as claimed in claim 1, wherein said interpolation is at least one of zeroth order interpolation, linear interpolation, quadratic interpolation and cubic interpolation.
4. (Currently Amended) The ~~method~~ computer readable storage medium as claimed in claim 1, the method further comprising the step of processing each estimate as though it were the correctly time scaled sequence of the sequence of symbols, so as to determine which estimate is the best estimate.
5. (Currently Amended) The ~~method~~ computer readable storage medium as claimed in claim 1, the method further comprising the steps of correlating each of said estimates with a reference corresponding to said sequence of symbols; and taking the estimate with the maximum correlation peak as the best estimate.
6. (Currently Amended) The ~~method~~ computer readable storage medium as claimed in claim 1, wherein said initial estimate of the sequence of symbols is stored in a buffer.

7. (Currently Amended) The ~~method~~ computer readable storage medium as claimed in claim 6, wherein said buffer is of total length M, the total number of scale searches conducted is

$$N_{\eta} = \frac{M}{2}(\eta_{\max} - \eta_{\min}) \text{ where } \eta_{\min}, \eta_{\max} \text{ correspond respectively to the minimum and maximum}$$

likely time scale modifications of the received signal.

8. (Currently Amended) The ~~method~~ computer readable storage medium as claimed in claim 1, wherein said initial estimate[[s]] of the sequence of symbols comprises a sequence of  $N_b$  estimates for each symbol, each of the  $N_b$  estimates corresponding to a different time offset of a symbol for a buffer b.

9. (Currently Amended) The ~~method~~ computer readable storage medium as claimed in claim 1, wherein [[the]] a scale search in the next detection window is adapted based on the information acquired during [[the]] a current detection window.

10. (Currently Amended) The ~~method~~ computer readable storage medium as claimed in claim 1, wherein [[the]] a scale space is searched using an optimal searching algorithm.

11. (Currently Amended) The ~~method~~ computer readable storage medium as claimed in claim 10, wherein the optimal searching algorithm is the grid refinement algorithm.

12. (Canceled)

13. (Canceled)

14. (Canceled)

15. (Currently Amended) An apparatus arranged to compensate for a linear time scale change in a received signal, the received signal being modified by a sequence of symbols in the time domain, the apparatus comprising:

- an extractor arranged to extract an initial estimate of the sequence of symbols from said received signal; and
- an interpolator arranged to form an estimate of a correctly time scaled sequence of the symbols by interpolating the values of said initial estimate, the interpolator repeating the forming to provide a range of estimates corresponding to different time scalings.

16. (Previously Presented) The apparatus as claimed in claim 15, the apparatus further comprising a buffer arranged to store one or more of said estimates.

17. (Original) A decoder comprising the apparatus as claimed in claim 15.